



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200  
Fax 613 632-5246

D5763-17

Job Sheet 207388



POSITIVE  
RECALL

Part No: D5763-17

Job Qty: 20 pcs

Part Name: Knob



Part Weight: 0 lbs

Job Created: 2/25/20

Due Date: 3/6/20

Type: Stock

Status: New

Job Tracking No:

Created By: Jennifer Renwick

Description:

Priority: Medium

Note: URF 2020-525 Was PN: 69830-22 DWG D5763 REV.A IPP REV:A 19.12.19 NEW ISSUE JV VERF:DD

Ship Via:

## Bill of Materials

## Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
100	Hardinge - 1	20 pcs			0.50	0.80	Hardinge - 1		BM 20-02-26
110	QC 2	20 pcs			0.00	0.00	QC 2 - 1		
							QC 2 - 12		
							QC 2 - 14		
							QC 2 - 17		
							QC 2 - 19		
							QC 2 - 2		
							QC 2 - 20		
							QC 2 - 22		
							QC 2 - 23		
							QC 2 - 25		
							QC 2 - 32		
							QC 2 - 33		
							QC 2 - 35		
							QC 2 - 39		
							QC 2 - 4		
							QC 2 - 40		
							QC 2 - 44		
							QC 2 - 45		
							QC 2 - 48		
							QC 2 - 49		
							QC 2 - 50		
							QC 2 - 51		
							QC 2 - 52		
							QC 2 - 57		
							QC 2 - 62		
							QC 2 - 63		
							QC 2 - 8		
							QC 2 - 66		
							QC 2 - 64		

**PRIORITY**



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
CANADA  
TEL.: 1 613 632-5200  
Email: sales@dartaero.com  
www.dartaerospace.com

Container No: S258714



Part: D5763-17

Job No: 207388

Serial No/Batch: S258714

Revision: REV.A

Inspector:

Exp Date:

Instructions:

Date: 02/26/20

Plex 2/25/20 1:01 PM Dart.lajeunesse.marie



120 QC 8	20 pcs	0.00 0.00	QC 2 - 65	
			QC 2 - 5	
			QC 2 - 71	
			QC 2 - 73	
			QC 2 - 69	
			QC 2 - 76	
			QC 8 - 12	
			QC 8 - 14	
			QC 8 - 17	
			QC 8 - 20	
			QC 8 - 25	
			QC 8 - 3	
			QC 8 - 32	
			QC 8 - 33	
			QC 8 - 35	
			QC 8 - 39	
			QC 8 - 4	
			QC 8 - 44	
			QC 8 - 45	
			QC 8 - 49	
			QC 8 - 58	
			QC 8 - 8	
			QC 8 - 9	
			QC 8 - 68	
			QC 8 - 67	
			QC 8 - 1 (A)	
			QC 8 - 47	
			QC 8 - 40	
			QC 8 - 52	
			QC 8 - 23	
			QC 8 - 57	
			QC 8 - 76	
			QC 8 - 61	
130 Handfinish - 1-1 Chemical- B4B	20 pcs	0.00 0.50	Handfinish - 1 - 1 - B4B	
			Handfinish - 1 - 2 - B4B	
			Handfinish - 1 - 3 - B4B	
			Handfinish - 1 - 4 - B4B	
			Handfinish - 1 - 5 - B4B	
			Handfinish - 1 - 6 - B4B	
			Handfinish - 1 - 7 - B4B	
			Handfinish - 1 - 8 - B4B	
			Handfinish - 1 - 9 - B4B	
			Handfinish - 1 - 10 - B4B	
			Handfinish - 1 - 11 - B4B	
			Handfinish - 1 - 12 - B4B	
			Handfinish - 1 - 13 - B4B	
			Handfinish - 1 - 14 - B4B	
			Handfinish - 1 - 15 - B4B	
			Handfinish - 1 - 16 - B4B	
			Handfinish - 1 - 17 - B4B	
			Handfinish - 1 - 18 - B4B	
			Handfinish - 1 - 19 -	

FEB 26 2020

DAS  
40  
9-89

FEB 27 2020



			B4B	
			Handfinish - 1 - 20 - B4B	
			Handfinish - 1 - 21 - B4B	
			Handfinish - 1 - 22 - B4B	
140 QC 7	20 pcs	0.00 0.00	QC 7 - 10	
			QC 7 - 13	
			QC 7 - 14	
			QC 7 - 15	
			QC 7 - 17	
			QC 7 - 18	
			QC 7 - 19	
			QC 7 - 2	
			QC 7 - 28	
			QC 7 - 3	
			QC 7 - 30	
			QC 7 - 34	20-02-27
			QC 7 - 36	
			QC 7 - 37	
			QC 7 - 41	
			QC 7 - 47	
			QC 7 - 48	
			QC 7 - 51	
			QC 7 - 58	
			QC 7 - 59	
			QC 7 - 60	
			QC 7 - 9	
			QC 7 - 68	
			QC 7 - 50	
			QC 7 - 67	
			QC 7 - 40	
			QC 7 - 24	
			QC 7 - 43	
			QC 7 - 61	
			QC 7 - 81	
			QC 7 - 76	
			QC 7 - 79	
			QC 7 - 83	
			QC 7 - 82	
150 Powdercoat - 1 White GI(A)- B4B	20 pcs	0.00 0.50	Powdercoat - 1 - B4B	
			Powdercoat - 2 - B4B	
			Powdercoat - 3 - B4B	20-02-27
			Powdercoat - 4 - B4B	
160 QC 3	20 pcs	0.00 0.00	QC 3 - 10	
			QC 3 - 13	
			QC 3 - 15	
			QC 3 - 17	
			QC 3 - 18	
			QC 3 - 2	
			QC 3 - 28	
			QC 3 - 3	
			QC 3 - 30	
			QC 3 - 34	
			QC 3 - 36	
			QC 3 - 41	
			QC 3 - 51	
			QC 3 - 58	
			QC 3 - 59	



			QC 3 - 68	
			QC 3 - 9	
			QC 3 - 40	FEB 27 2020
			QC 3 - 19	
			QC 3 - 43	
			QC 3 - 24	
			QC 3 - 61	
			QC 3 - 81	
			QC 3 - 82	
170 Packaging 3-1 - Stock - B4B	20 pcs	0.00 0.00	Packaging 3 - 1 - B4B	
			Packaging 3 - 2 - B4B	
			Packaging 3 - 3 - B4B	
			Packaging 3 - 4 - B4B	
			Packaging 3 - 5 - B4B	
			Packaging 3 - 6 - B4B	
			Packaging 3 - 7 - B4B	
			Packaging 3 - 8 - B4B	
			Packaging 3 - 9 - B4B	
			Packaging 3 - 10 - B4B	
			Packaging 3 - 11 - B4B	MAC
			Packaging 3 - 12 - B4B	
			Packaging 3 - 13 - B4B	
			Packaging 3 - 14 - B4B	
			Packaging 3 - 15 - B4B	
			Packaging 3 - 16 - B4B	
			Packaging 3 - 17 - B4B	
			Packaging 3 - 18 - B4B	
			Packaging 3 - 19 - B4B	
			Packaging 3 - 20 - B4B	
			Packaging 3 - 21 - B4B	
			Packaging 3 - 22 - B4B	
			Packaging 3 - 23 - B4B	
			Packaging 3 - 24 - B4B	
			Packaging 3 - 25 - B4B	
			Packaging 3 - 26 - B4B	
			Packaging 3 - 27 - B4B	
			Packaging 3 - 28 - B4B	
			Packaging 3 - 29 - B4B	
			Packaging 3 - 30 - B4B	
			Packaging 3 - 31 - B4B	
			Packaging 3 - 32 - B4B	
			Packaging 3 - 33 - B4B	
			Packaging 3 - 34 - B4B	
			Packaging 3 - 35 - B4B	
			Packaging 3 - 36 - B4B	
			Packaging 3 - 37 - B4B	
180 QC 21 - SA	20 pcs	0.00 0.00	QC 21 - SA - 21	DAS
			QC 21 - SA - 70	21
			QC 21 - SA - 53	MAR 02 2020

Part Op 100 - 1-Machine as per folio F 05763-0 FOLIO REV: AA DWG REV: A 2-Debur

Descriptions: 110 - QC2- Inspect parts off machine FAI/FAIB

120 - QC8- Inspect parts - second check

130 - Chemical Conversion Coat per QSI005 4.1

140 - QC7-Inspect Chemical Conversion Coat 1235540

150 - START TIME: 1:00 OVEN TEMPERATURE: 320° FINISH TIME: 1:30

160 - QC3- Inspect Part Finish Standard Process

170 - Identify as per dwg & Stock Location: \_\_\_\_\_

180 - QC21- Final Inspection - Work Order Release

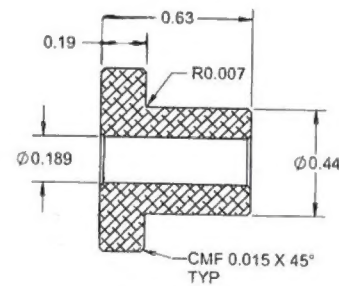
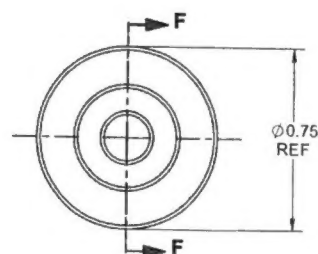


Job BOM				
Part / Item	Component Name	Quantity	Operation	Container
M6061T6R0.750	6061-T6 Round Bar .750"	1.2820 ft (.0641 ea)	100-Hardinge - 1	S226376
Job Allocations				
Operation	Component Part	Required	Inventory	Allocated
100-Hardinge - 1	M6061T6R0.750	1	17	0
Part Specifications				
Specifications could not be found.				

Plex 2/25/20 1:01 PM Dart.lajeunesse.marie







**SECTION F-F**

**D5763-17 KNOB**  
(DERIVED FROM AERO DESIGN P/N 69830-22)

SHOP COPY  
RETURN TO  
ENGINEERING  
UNCONTROLLED COPY  
SUBJECT TO AMENDMENT  
WITHOUT NOTICE  
WORK ORDER

NO. 207388  
ML5  
2002-25

- NOTES:**
- 1) MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR, 3/4" DIA  
PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221  
REF DART SPEC M6061T6R
  - 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1  
POWDER COAT "WHITE" (4.3.5.1) PER DART QSI 005 4.3
  - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
  - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
  - 5) BREAK SHARP EDGES: 0.005 TO 0.010
  - 6) IDENTIFICATION: NONE
  - 7) WEIGHT: 0.01 lbs

UNDER REVIEW  
URF 2020-524 20.02.20 (NO)

RELEASED  
10.0 FEB 19

APPROVED	DESIGN	ZF	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA REV. A SHEET 10 OF 10 SCALE NTS COPYRIGHT © 2019 BY DART AEROSPACE LTD <small>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL, AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT THE WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>
	DRAWN	SAD	
	CHECKED	NO	
	MFG. APPR.	DD	
	APPROVED	NO	
	DE APPR.	CP	
DATE	20.02.19	DRAWING NO. <b>D5763</b> TITLE <b>FWD BEAM</b>	



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# **PURCHASE ORDER** **POHB044758**



**Supplier:** THY001-VC  
Thyssenkrupp Materials CA Ltd  
O/A VPK Metal- c/o T27540  
PO Box 4275, Postal"A"  
Toronto  
ON  
M5W 5V8 Canada  
Phone: 905 669 9444  
Fax: 905 738 9033

**PO No:** POHB044758

**PO Date:** 10/11/19

**Due Date:** 10/23/19

**Purchase Order**

**Revision:**

**Revision Date:**

**Ship-To Contact:** Lavoie, Chantal  
Phone: 613-623-5200 Ext: 242  
Fax: 613-632-1053  
clavoie@dartaero.com

OCT 11 2019

**Ship To:** 1270 Aberdeen Street  
Hawkesbury  
ON  
K6A 1K7 Canada  
Phone: 613-632-5200

**Via:** Ground

**Pymt Terms:** Net 30

**Freight Terms:**

**Special Comments:**

## **Items**

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1		M6061T6R0.625		6061-T6 Round Bar .625" : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed	-	10/23/19	36 ft	36 ft 0 ft	36 ft	\$2.08333/ft	\$75.00
2		M6061T6R0.750		6061-T6 Round Bar .750" : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed	-	10/23/19	36 ft	36 ft 0 ft	36 ft	\$2.416666/ft	\$87.00

OCT 25 2019

OCT 25 2019





Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# **PURCHASE ORDER** **POHB044758**



Items												
Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
3		M6061T6R1.500		6061-T6 Round Bar 1.50 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed	-	10/23/19	24 ft	24 ft 0 ft	24 ft	\$6.7504166/ft	\$162.01
											OCT 25 2019	
4		M6061T6R3.000		6061-T6 Round Bar 3.000" : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed	-	10/23/19	12 ft	12 ft 0 ft	12 ft	\$25.339166/ft	\$304.07
											OCT 25 2019	
5		M6061T6R3.250		6061-T6 Round Bar 3.250" : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed	-	10/23/19	6 ft	6 ft 0 ft	6 ft	\$37.50/ft	\$225.00
											OCT 25 2019	
6		M304R1.000		304 Round Bar 1.00 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed	-	10/23/19	12 ft	12 ft 0 ft	12 ft	\$9.425/ft	\$113.10
											OCT 25 2019	
Grand Total:												\$966.18





Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

**PURCHASE ORDER**  
**POHB044758**



**Order Notes**

Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable). No Raw Metals from China or Soviet Bloc Countries. (DFARS)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program.

A049 supplier awareness.

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

Plex 10/11/19 8:17 AM Dart.Lavoie.Chantal



# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 616-117189750  
DATE: OCT 25 2019

PO / BATCH NO: POHED4817581  
6023526

MATERIAL CERT REC'D: Yes  
QUANTITY RECEIVED: 36 ft  
QUANTITY INSPECTED: 36 ft  
QUANTITY REJECTED: -

THICKNESS ORDERED: .75" D  
THICKNESS RECEIVED: .75" D  
SHEET SIZE ORDERED: -  
SHEET SIZE RECEIVED: -

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y N	
CORRECT FINISH	Y N	
CORROSION	Y N	
CORRECT GRAIN DIRECTION	Y N	
CORRECT MATERIAL PER M-DRAWING	Y N	<u>127189750</u>
CORRECT THICKNESS	Y N	
PHOTO REQUIRED	Y N	
CORRECT REF # TO LINK CERT	Y N	<u>HT-23027726</u>
CORRECT MATERIAL IDENTIFICATION	Y N	
CORRECT M# ON THE MATERIAL	Y N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: _____	DAS <b>81</b>	SIGNED OFF BY: _____	
DATE: <u>OCT 25 2019</u>	9-89	DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



# SPECIFICATION CONTROL DRAWING

Line 2

M6061T6R0.750

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)  
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6R[D.DDD]  
DIA.

WHERE "D.DDD" = DIAMETER IN INCHES

EG. 5/8" ROUND BAR = M6061T6R0.625

**RELEASED**  
2009-09-09  
JAP

B	REFORMAT DWG. ADD B211& B221 SPEC (2N D8-1). REF PAR 08-020A	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN		<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN		DRAWING NO.	REV. B
CHECKED		M6061T6R	SHEET 1 OF 1
MFG. APPR.		TITLE	SCALE
APPROVED		6061-T6 ROUND BAR	NTS
DE APPR.		COPYRIGHT © 2001 BY DART AEROSPACE LTD THIS DOCUMENT IS PRELIMINARY AND IS SUPPLIED ON THE EXPRESS UNDERSTANDING THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COMBINATION THEREOF WITHOUT THE WRITTEN PERMISSION FROM DART AEROSPACE LTD	
DATE	09.07.13		





Hydro Extrusion USA, LLC  
53 POTTSVILLE STREET  
CRESSONA, PA  
17929-0187

## Certified Test Report

Sales Order Number	Line No.	Customer P/O	Cert Number	Page
1101567796	1	S400465355-R01-0010	HYDRO3139513	1 of 2
			Cert Creation Date	Cert Print Date
			04-OCT-19	04-OCT-19

### Invoice To Customer

THYSSENKRUPP MATERIALS CA LTD  
COPPER & BRASS SALES  
ACCOUNTS PAYABLE  
P.O. BOX 5116  
SOUTHFIELD, MI - 48086-5116

### Ship To Customer

THYSSENKRUPP MATERIALS CA LTD  
4700 BOIS FRANC  
ST LAURENT, QC - H4S 1A7

Quantity Shipped	Date Shipped	Item Description	Specification
973 LB	04-OCT-19	ACC-U-LINE Extruded ACC-U-ROD 0.750 DIA +/-003 SECT 555324 144.000 IN LN FEN M-MILL W/F .320 F 5 CS .75 6061/T6511H Marking CONTINUOUS;	ASTM B221 REV 14 Table 1 Chemical Composition Limits Table 2 Mechanical Property Limits ASME SB 221 REV 17 Table 1 Chemical Composition Limits Table 2 Mechanical Properties Limits AMS QQ-A-2008 REV A
M/L	Item No.		
1051403	G03967437		
Delivery Id	Item No. Rev		
5139651			
Customer Part No.			
ALRD00418			

### Applicable Specifications, Revisions and Exceptions

For U.S. Government Sales (when applicable to extrusions): Items supplied are compliant with the Buy American Act DFARS 252.225-7001 Melted in the USA or a qualifying country, as identified in the Buy American Act (DFARS 252.225-7001)

COMPOSITION NOTE: The values for 'Others Each' and 'Others Total' have met the limits as shown on this certified inspection report. Remainder is Aluminum.

Hydro Extrusion USA, LLC hereby certifies that the extrusions covered in this report are within the acceptable ranges of the sections or the specification tables, excluding footnotes, identified herein. Chemical composition may be based on results provided by external billet suppliers. Further information on processing, testing including ASTM B557, and inspection is available at [www.hydro.com/technicalspecificationsENA](http://www.hydro.com/technicalspecificationsENA). Sales are governed by the Extrusion North America Standard Terms and Conditions of Sale available at [www.hydro.com/termsconditionsENA](http://www.hydro.com/termsconditionsENA), unless otherwise mutually agreed in writing.

### Signature And Title

Darrell Wenrich  
Quality Manager

04-OCT-19

### Quantities per Lot / Packages

Package Number	Lot Number	Quantity	UOM	Weight	
				Gross	Net
G12-PKG3558487	23687726	156	PCS	979	973
G12-PKG3558487	23687726	--	--	--	--

### Composition Limits

From: TK Materials CA, Ltd.  
Cust. DART AEROSPACE LTD  
CstAr  
Wgt.: 19 LB

Del.: 2407075799  
CstOr POHB044758  
Date 10/22/2019





Hydro Extrusion USA, LLC  
53 POTTSVILLE STREET  
CRESSONA, PA  
17929-0187

## Certified Test Report

Sales Order Number  
1101567796

Line No.  
1

Customer P/O  
5400465355-R01-0010

Cert Number

HYDRO3139513

Page

Page 2 of 2

Cert Creation Date

04-OCT-19

Cert Print Date

04-OCT-19

Alloy	Si		Fe		Cu		Mn		Mg		Cr		Zn	
	PCT (%)		PCT (%)		PCT (%)		PCT (%)		PCT (%)		PCT (%)		PCT (%)	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
6061	0.40	0.80	---	0.70	0.15	0.40	---	0.15	0.80	1.20	0.04	0.35	---	0.25
Alloy	Ti		Others Each		Others Total									
	PCT (%)		PCT (%)		PCT (%)									
	Min	Max	Min	Max	Min	Max								
6061	---	0.15	---	0.05	---	0.15								

### Composition Results

Heat / Cast	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others Each	Others Total
4046633	0.75	0.31	0.31	0.06	0.89	0.06	0.03	0.02	--	--

### Mechanical Property - Test Limits

Test Type			UTS - L		TYS - L		EL 4D-Long	
UOM			KSI		KSI		PCT	
# of Tests			--		--		--	
Test Temper	Lot Number	# of Tests	MIN Value	MAX Value	MIN Value	MAX Value	MIN Value	MAX Value
T6511H	23487726	11	43.7	48.0	39.4	45.0	14.5	17.5

### Notes

Mercury is not a normal contaminant in aluminum alloys and we do not knowingly use it in the manufacture of our goods

Extruded in the USA

Extrusions produced to -T6511 temper also meet -T6 temper requirements

From: TK Materials CA, Ltd.

Cust. DART AEROSPACE LTD

CstAr

Wgt.: 19 LB

Del.: 2407075799

CstOr POHB044758

Date 10/22/2019

*Thomas S. Smith*

Entered: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. \_\_\_\_\_

Route update only ☐

Job: _____  Part No. _____	<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/>	<b>DEPARTMENT/PROCESS</b>			
		Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Large Fab <input type="checkbox"/>	Cross tube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/>	Eng. (Non-AW) <input type="checkbox"/> Prod. Eng. Coord. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/>	Engineering <input type="checkbox"/> Water Jet <input type="checkbox"/> Supplier <input type="checkbox"/> Quality <input type="checkbox"/>
Date :	Sequence #:	QTY Affected :			MRB (QSI042)
Description Work Order Deviation		Disposition			Completed By   Lead hand / Supervisor   QC / QA Coordinator
<b>Root Cause</b>  Operator <input type="checkbox"/> Manufacturing Process <input type="checkbox"/> Equip/Tooling <input type="checkbox"/> Handling/Presservation <input type="checkbox"/> Material <input type="checkbox"/> Product Improvement <input type="checkbox"/> Process Improvement <input type="checkbox"/> Human Factors <input type="checkbox"/>		<b>FAULT CATEGORY</b>  <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Pressure/Forced  <input type="checkbox"/> Bending  <input type="checkbox"/> Crushing  <input type="checkbox"/> Cracks  <input type="checkbox"/> Crimp/Kink/Ripple/Wave/Twist  <input type="checkbox"/> Marks/Chatter  <input type="checkbox"/> Mislabeled         </div> <div style="width: 50%;"> <input type="checkbox"/> Contamination  <input type="checkbox"/> Misaligned/off center  <input type="checkbox"/> BOM/Route  <input type="checkbox"/> Broken/Damage/Defect  <input type="checkbox"/> Incomplete/Unclear Instructions  <input type="checkbox"/> Drill Holes  <input type="checkbox"/> Fit/Function         </div> <div style="width: 50%;"> <input type="checkbox"/> Power Loss/Surge  <input type="checkbox"/> Folio/Program  <input type="checkbox"/> Grain Direction  <input type="checkbox"/> Weld  <input type="checkbox"/> Wrong Stock Pulled  <input type="checkbox"/> Out of Sequence  <input type="checkbox"/> Off-set/Set-up         </div> <div style="width: 50%;"> <input type="checkbox"/> Positioned Wrong  <input type="checkbox"/> Outside Tolerance  <input type="checkbox"/> Drawing  <input type="checkbox"/> Finish  <input type="checkbox"/> Part Lost/Missing  <input type="checkbox"/> Misread         </div> </div>			
		Other/Details:			